

Title (en)

Methods and apparatus for monitoring consciousness

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ÜBERWACHUNG VON BEWUSSTSEIN

Title (fr)

METHODES ET DISPOSITIF POUR DIRIGER LA CONSCIENCE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO02100267A1] The application discloses several inventions as follows: (a) a method of monitoring consciousness of a sentient subject and automatically detecting transition states by obtaining an EEG signal and comparing the two signals to detect the transition and provide a warning signal when the transition occurs; (b) a method or apparatus for processing a non-stationary signal including segments having increasing and decreasing amplitude representing physiological characteristics of a sentient subject by performing syntactic analysis of segments, comparing height, width and error parameters of segments to identify noise segments and replacing noise segments with a straight line before classifying the signal as belonging to one of predefined sleep states; (c) a method of monitoring physiological characteristics of a sentient subject including substitution of a degraded first electrode signal by a second spare electrode signal and providing a warning signal when both signals are degraded; and (d) a capacitive or inductive element sensor for detecting the degree of opening of the eyelid including signal providing means indicative of the relative positions between a component movable with the eyelid and a reference component.

IPC 8 full level

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